Growth Differentiation Factor 6 (GDF6) ELISA Kit for Goose

PRODUCT OVERVIEW

Product Name	Growth Differentiation Factor 6 (GDF6), ELISA Kit
Full Product Name	Goose Growth Differentiation Factor 6 ELISA Kit
Product Gene Name	GDF6 elisa kit
Species Reactivity	Goose
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	50,662 Da
Chromosome Location	Chromosome: 8; NC_000008.10 (97154558..97173020, complement). Location: 8q22.1
OMIM	118100
3D Structure	ModBase 3D Structure for Q6KF10
Related Product Information for GDF6 elisa kit	MBS015717 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Growth Differentiation Factor 6 (GDF6) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing GDF6. The ELISA analytical biochemical technique of the MBS015717 kit is based on GDF6 antibody-GDF6 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect GDF6 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, GDF6. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of GDF6 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GDF6. It may not necessarily be applicable to this product.

NCBI GI #	48475062
NCBI GeneID	392255
NCBI Accession #	NP_001001557.1
UniProt Primary Accession #	Q6KF10
UniProt Secondary Accession #	Q6PI58
UniProt Related Accession #	Q6KF10
GenBank Nucleotide #	NM_001001557.2
NCBI Official Full Name	growth/differentiation factor 6
NCBI Official Synonym Full Names	growth differentiation factor 6
NCBI Official Symbol	GDF6
NCBI Official Synonym Symbols	KFM; KFS; KFS1; KFSL; SGM1; BMP13; CDMP2; MCOP4; SCDO4; MCOPCB6
UniProt Protein Name	Growth/differentiation factor 6

UniProt Synonym Protein Names	Growth/differentiation factor 16
Protein Family	Growth/differentiation factor
UniProt Gene Name	GDF6
UniProt Synonym Gene Names	GDF16; GDF-6
UniProt Entry Name	GDF6_HUMAN
NCBI Protein Information	growth/differentiation factor 6; GDF-6; Klippel-Feil syndrome; Klip-Feil malformation; Klippel-Feil malformation; growth/differentiation factor 16
NCBI Summary for GDF6	This gene encodes a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily of secreted signaling molecules. It is required for normal formation of some bones and joints in the limbs, skull, and axial skeleton. Mutations in this gene result in colobomata, which are congenital abnormalities in ocular development, and in Klippel-Feil syndrome (KFS), which is a congenital disorder of spinal segmentation. [provided by RefSeq, Jul 2008]
UniProt Comments for GDF6	GDF6: Required for normal formation of bones and joints in the limbs, skull, and axial skeleton. Plays a key role in establishing boundaries between skeletal elements during development. Defects in GDF6 are the cause of Klippel-Feil syndrome type 1 (KFS1). A skeletal disorder characterized by congenital fusion of cervical vertebrae. It is due to a failure in the normal segmentation of vertebrae during the early weeks of fetal development. The clinical triad consists of short neck, low posterior hairline, and limited neck movement. Deafness is a well- known feature of KFS and may be of sensorineural, conductive, or mixed type. A chromosomal aberration involving GDF6 has been found in a patient with Klippel-Feil syndrome (KFS). Paracentric inv(8)(q22;2q23.3). Defects in GDF6 are the cause of microphthalmia isolated type 4 (MCOP4). A disorder of eye formation, ranging from small size of a single eye to complete bilateral absence of ocular tissues. Ocular abnormalities like opacities of the cornea and lens, scaring of the retina and choroid, cataract and other abnormalities like cataract may also be present. Belongs to the TGF-beta family. Protein type: Cytokine; Cell development/differentiation; Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 8q22.1 Cellular Component: extracellular space Molecular Function: protein homodimerization activity; growth factor activity; cytokine activity; transforming growth factor beta receptor binding Biological Process: BMP signaling pathway; regulation of apoptosis; apoptosis; positive regulation of transcription, DNA-dependent; regulation of MAPKKK cascade; activin receptor signaling pathway; positive regulation of neuron differentiation; cell development; growth Disease: Klippel-feil Syndrome 1, Autosomal Dominant; Microphthalmia, Isolated 4; Leber Congenital Amaurosis 17; Microphthalmia, Isolated, With Coloboma 6
Research Articles on GDF6	**1.** a critical role of HTRA1 in the regulation of angiogenesis via TGF-beta signaling and identified GDF6 as a novel disease gene for AMD.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.

Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/gdf6-goose-elisa-kits/growth-differentiation-factor-6/15717